

## WCIS Data Quality Report, May 2006

WCIS created 7,694,439 Acknowledgments Records from July 2004 to May 5, 2006:<sup>1</sup>

Almost all FROI submissions were accepted (Table 1, Chart 1a):

- 75% of FROI acknowledgments accepted the data (TA).
- 18% of FROI acknowledgments accepted the data with error (TE).
- Only 7% of FROI acknowledgments rejected the data (TR).

SROI data submissions could use some improvement as 25% were rejected (Table 1, Chart 1b):

- 42% of SROI acknowledgments accepted the data (TA).
- 33% of SROI acknowledgments accepted the data with error (TE).
- 25% of SROI acknowledgments rejected the data (TR).

Table 1

	ACCEPT (TA)	ACCEPT with ERRORS (TE)	REJECT (TR)	TOTAL
FROI	2,646,217	643,054	256,577	3,545,848
SROI	1,711,557	1,379,359	1,057,675	4,148,591
FROI + SROI	4,357,774	2,022,413	1,314,252	7,694,439
FROI	75%	18%	7%	100%
SROI	42%	33%	25%	100%
FROI + SROI	57%	26%	17%	100%

By data element, percentages of rejections:

- For FROI (Chart 2a), maintenance type code accounts for 95% of rejections.
- For SROI rejections (Chart 2b), maintenance type code accounts for 61%; date of injury (27%); payment/adjustment start and end dates (9%).
- Detailed error messages for FROI rejections by data element are shown in Table 2a; for SROI Rejections, Table 2b.

By data element, percentages of “accept with error:”

- For FROI “accept with error” (Chart 3a), wage period accounts for 26%, class code (21%), and postal code of injury site (14%).
- For SROI “accept with error” (Chart 3b), wage period accounts for 32%; date of maximum medical improvement (25%); and date disability began (21%).
- Detailed error messages for FROI “accept with error” by data element are shown in Table 3a; for SROI, Table 3b.

<sup>1</sup> 2,515,713 unique JCNs were associated with these acknowledgment records.

## WCIS Acknowledgment Records: %TA, %TE, %TR

Chart 1a

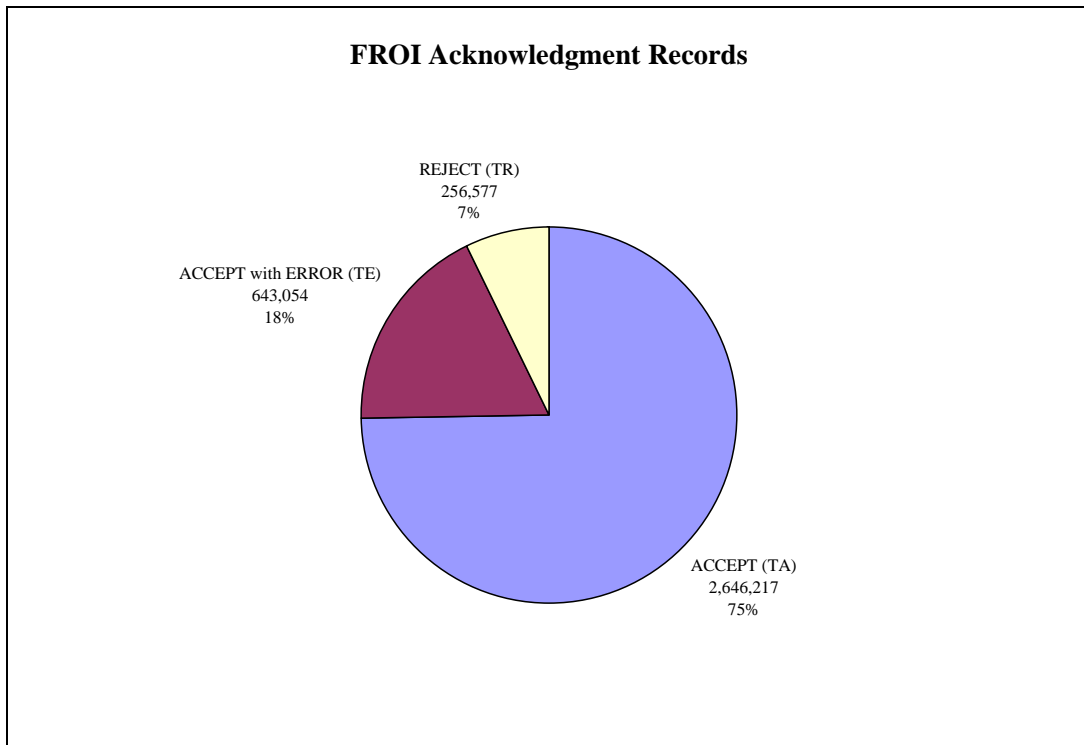
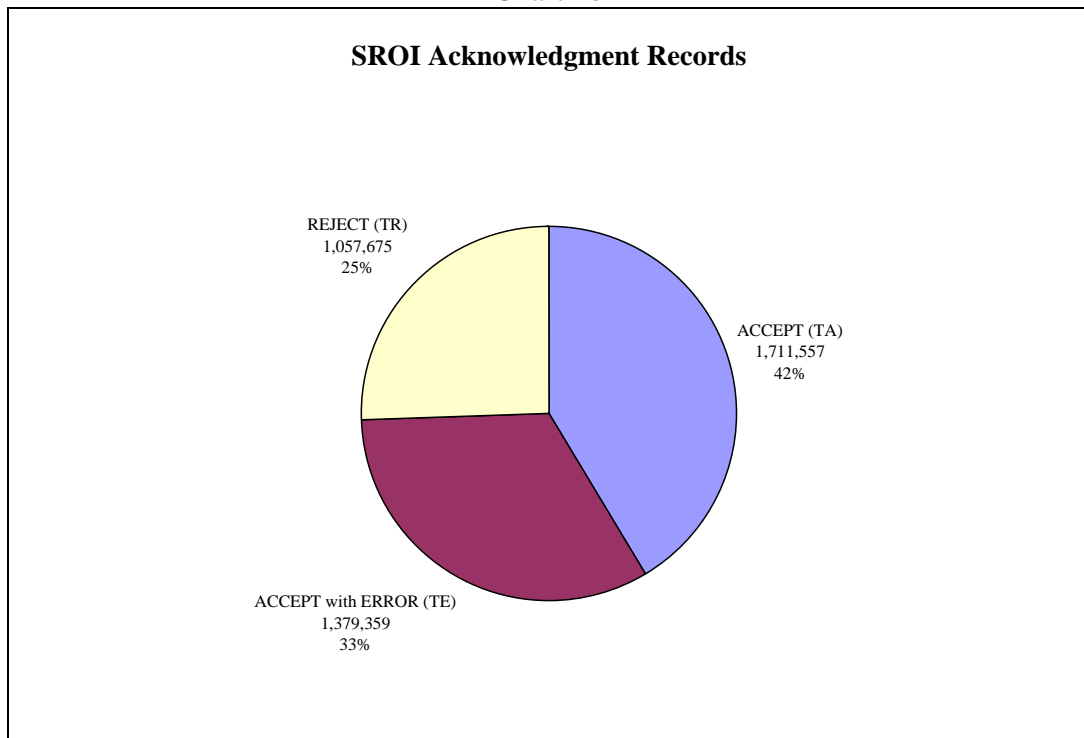


Chart 1b



## WCIS Acknowledgment Records by Data Element, REJECT (TR)

Chart 2a (See Table 2a for details)

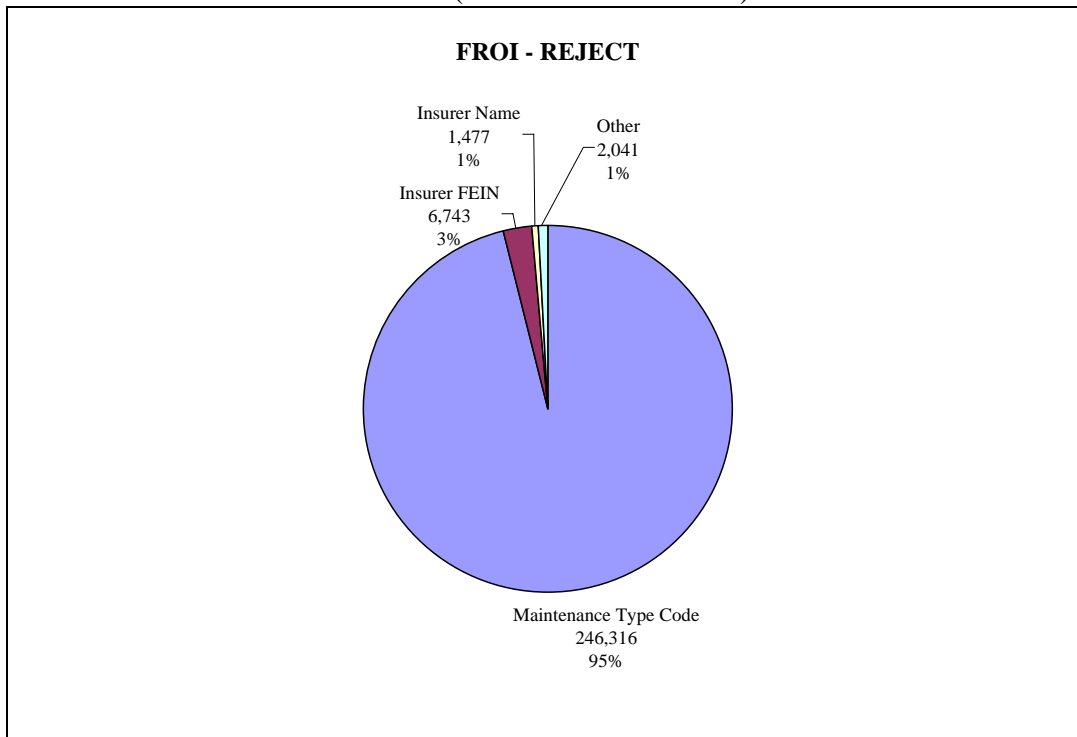
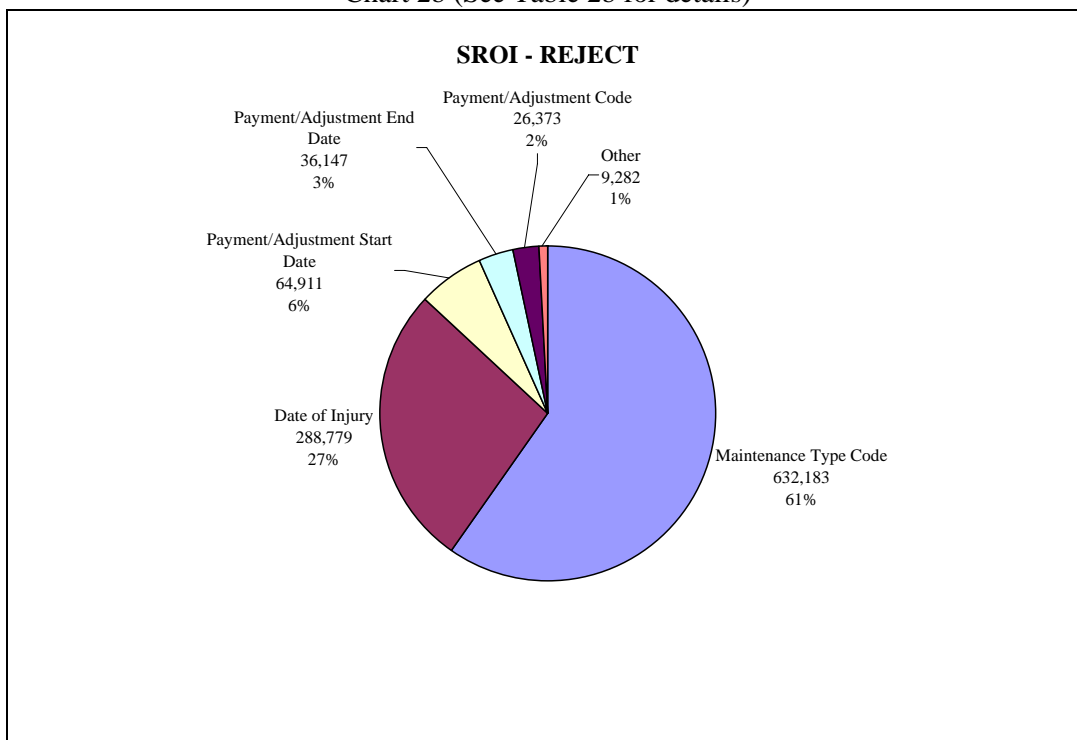


Chart 2b (See Table 2b for details)



## WCIS Acknowledgment Records by Data Element and Error Message FROI REJECT (TR)

The largest numbers of FROI rejections are for the data element “maintenance type code” (MTC), error message “duplicate first report.” The MTC with the second largest number of errors is “No matching FROI.”

Table 2a (Corresponds with Chart 2a)

<b>FROI REJECT (TR), by Data Element and Error Message</b>				
DN	DN_NAME	ERR	MESSAGE	REJECT
2	Maintenance Type Code	003	MTC invalid for '148'	106
2	Maintenance Type Code	048	Duplicate First Report (148)	177,454
2	Maintenance Type Code	053	No matching FROI (148)	67,224
2	Maintenance Type Code	063	Invalid event sequence/relationship	1,532
3	Maintenance Type Code Date	029	Must be a valid date (CCYYMMDD)	1
4	Jurisdiction	058	Code/ID invalid	334
6	Insurer FEIN	028	Must be numeric (0-9)	6,743
7	Insurer Name	001	Mandatory field not present	1,477
15	Claim Administrator Claim #	001	Mandatory field not present	189
18	Employer Name	001	Mandatory field not present	115
24	Self Insured Indicator	012	Indicator Invalid	466
31	Date of Injury	029	Must be a valid date (CCYYMMDD)	362
31	Date of Injury	037	Must be <= Maintenance Type Code date	207
43	Employee Last Name	001	Mandatory field not present	91
44	Employee First Name	001	Mandatory field not present	158
187	Claim Administrator FEIN	028	Must be numeric (0-9)	118
	Total			256,577

## WCIS Acknowledgment Records by Data Element and Error Message SROI REJECT (TR)

The largest numbers of SROI rejections are for the data element “maintenance type code” (MTC), error message “invalid event sequence/relationship.” Common reasons for MTCs being rejected for invalid event/sequence relations are:

- ANs and FNs report a new indemnity benefit that WCIS does not have in the system. For example, PD benefits are reported on the AN but only TD is in the system. Suspensions, like the S1 and S7, are also commonly rejected for this reason.
- ANs and FNs are missing an indemnity benefit that was previously reported and accepted. For example WCIS has TD and PD in the system but the AN is sent with just the TD.
- ANs and FNs are sent in without any benefits at all, indemnity or non-indemnity.
- SROI COs and 02s are sent as the first SROI on a claim.

Table 2b (corresponds with Chart 2b)

<b>SROI REJECT (TR), by Data Element and Error Message</b>				
DN	DN_NAME	ERR	ERROR MESSAGE	REJECT
2	Maintenance Type Code	004	MTC invalid for 'A49'	4,247
2	Maintenance Type Code	053	No matching FROI (148)	53,181
2	Maintenance Type Code	057	Duplicate transmission/transaction	10,859
2	Maintenance Type Code	061	Event Criteria not met	20,820
2	Maintenance Type Code	063	Invalid event sequence/relationship	543,076
3	Maintenance Type Code Date	001	Mandatory field not present	2,556
3	Maintenance Type Code Date	029	Must be a valid date (CCYYMMDD)	375
4	Jurisdiction	058	Code/ID invalid	4,617
6	Insurer FEIN	028	Must be numeric (0-9)	1,531
31	Date of Injury	029	Must be a valid date (CCYYMMDD)	288,768
31	Date of Injury	037	Must be <= Maintenance Type Code date	11
85	Payment/Adjustment Code	024	Payment/Adjustment Code Invalid	513
85	Payment/Adjustment Code	059	Value not consistent w/ value previously reported	4,144
85	Payment/Adjustment Code	061	Event Criteria not met	21,716
86	Payment/Adjustment Paid to Date	028	Must be numeric (0-9)	95
88	Payment/Adjustment Start Date	029	Must be a valid date (CCYYMMDD)	26,388
88	Payment/Adjustment Start Date	034	Must be >= Date of Injury	740
88	Payment/Adjustment Start Date	035	Must be >= Date Disability Began	37,783
89	Payment/Adjustment End Date	029	Must be a valid date (CCYYMMDD)	27,242
89	Payment/Adjustment End Date	034	Must be >= Date of Injury	461
89	Payment/Adjustment End Date	035	Must be >= Date Disability Began	7,991
89	Payment/Adjustment End Date	038	Must be >= Start date	453
92	Benefit Adjustment Code	025	Benefit/Adjustment Code Invalid	14
95	Paid to Date/ Reduced Earnings/ Recoveries Code	026	PTD/RE/Recovery Code Invalid	94
	<b>Total</b>			<b>1,057,675</b>

## WCIS Acknowledgment Records by Data Element, ACCEPT with ERROR (TE)

Chart 3a (See Table 3a for details)

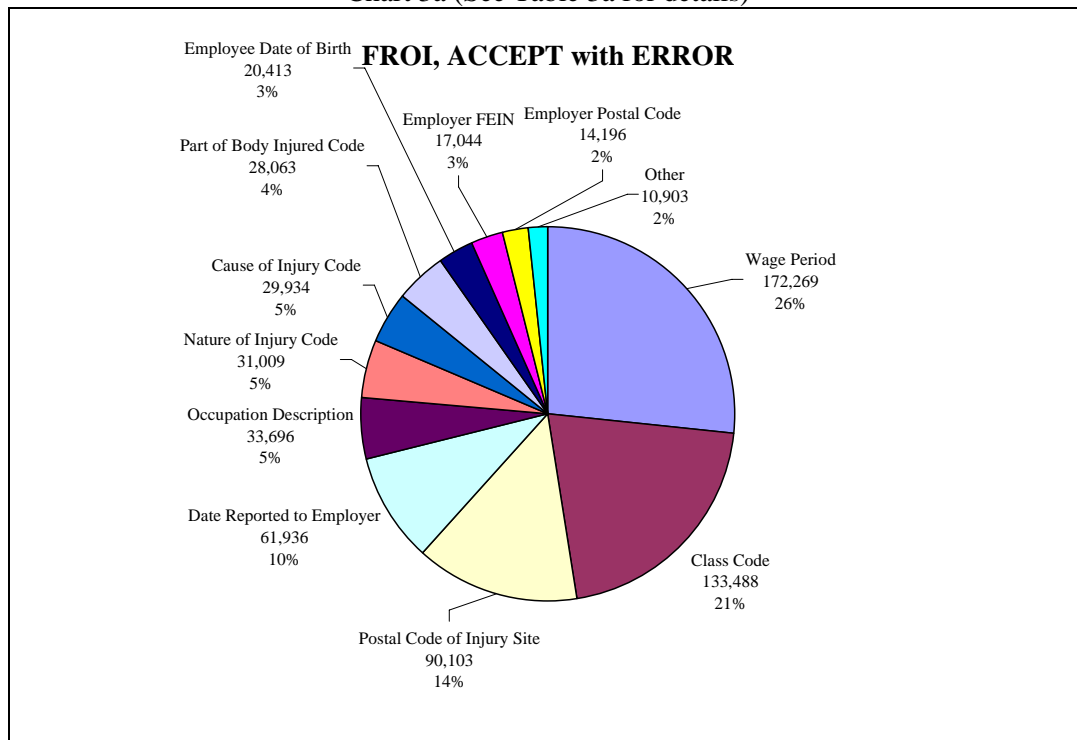
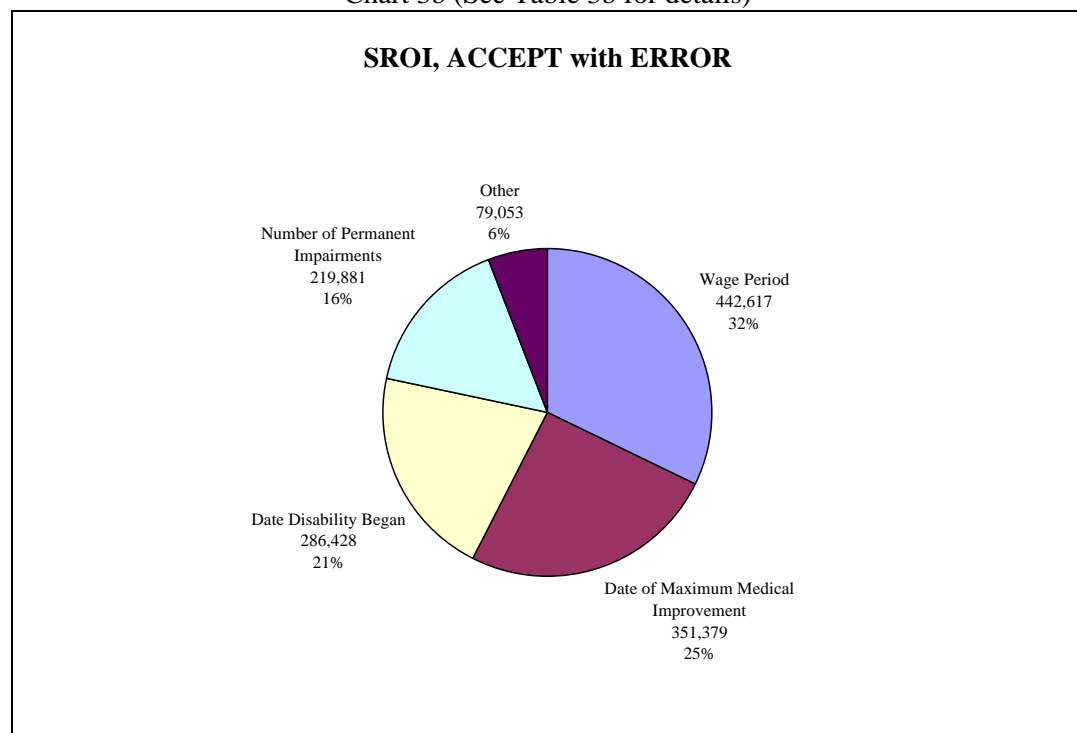


Chart 3b (See Table 3b for details)



WCIS Acknowledgment Records by Data Element and Error Message  
FROI, ACCEPT with ERROR (TE)

- For FROI and SROI acknowledgments, the data element accepted with the most errors is “Wage Period” (FROI 26%, SROI 32%).
- After “Wage Period,” the data elements with many errors are:
  - FROI: Class Code (21%), Postal Code of Injury Site (14%), and Date Reported to Employer (10%).
  - SROI: Date of Maximum Medical Improvement (25%), Date Disability Began (21%), and Number of Permanent Impairments (16%).

Table 3a (Corresponds with Chart 3a)

<b>FROI, ACCEPT with ERROR (TE), by Data Element and Error Message</b>				
<b>DN</b>	<b>DATA ELEMENT</b>	<b>ERR</b>	<b>MESSAGE</b>	<b>Accept with Error</b>
14	Claim Administrator Postal Code	032	Must be valid on Zip Code Table	4,692
16	Employer FEIN	028	Must be numeric (0-9)	17,044
18	Employer Name	001	Mandatory field not present	992
23	Employer Postal Code	032	Must be valid on Zip Code Table	14,196
24	Self Insured Indicator	012	Indicator Invalid	418
33	Postal Code of Injury Site	032	Must be valid on Zip Code Table	90,103
35	Nature of Injury Code	006	NCCI Nature Code Invalid	31,009
36	Part of Body Injured Code	007	NCCI Part of Body Code Invalid	28,063
37	Cause of Injury Code	008	NCCI Cause of Injury Code Invalid	29,934
40	Date Reported to Employer	029	Must be a valid date (CCYYMMDD)	58,902
40	Date Reported to Employer	034	Must be >= Date of Injury	2,575
40	Date Reported to Employer	037	Must be <= Maintenance Type Code date	459
41	Date Reported to Claim Administrator	029	Must be a valid date (CCYYMMDD)	769
41	Date Reported to Claim Administrator	034	Must be >= Date of Injury	997
41	Date Reported to Claim Administrator	037	Must be <= Maintenance Type Code date	473
43	Employee Last Name	001	Mandatory field not present	76
44	Employee First Name	001	Mandatory field not present	80
52	Employee Date of Birth	029	Must be a valid date (CCYYMMDD)	15,946
52	Employee Date of Birth	033	Must be <= Date of Injury	989
52	Employee Date of Birth	037	Must be <= Maintenance Type Code date	212
52	Employee Date of Birth	055	Must be <= Date of Hire	3,266
53	Gender Code	009	Gender Code Invalid	2,174
54	Marital Status Code	010	Marital Status Code Invalid	4
55	Number of Dependents	028	Must be numeric (0-9)	228
59	Class Code	014	Class Code (NCCI or State Spec) Invalid	133,488
60	Occupation Description	001	Mandatory field not present	33,696
63	Wage Period	011	Wage Period Code Invalid	172,269
	<b>Total</b>			<b>643,054</b>

WCIS Acknowledgment Records by Data Element and Error Message  
SROI, ACCEPT with ERROR (TE)

Table 3b (corresponds to Chart 3b)

<b>SROI, ACCEPT with ERROR (TE), by Data Element and Error Message</b>				
DN	DATA ELEMENT	ERR	ERROR MESSAGE	Accept with Error
14	Claim Administrator Postal Code	032	Must be valid on Zip Code Table	175
55	Number of Dependents	028	Must be numeric (0-9)	18
56	Date Disability Began	029	Must be a valid date (CCYYMMDD)	280,101
56	Date Disability Began	034	Must be >= Date of Injury	737
56	Date Disability Began	037	Must be <= Maintenance Type Code date	5,590
57	Employee Date of Death	029	Must be a valid date (CCYYMMDD)	106
57	Employee Date of Death	037	Must be <= Maintenance Type Code date	3
62	Wage	028	Must be numeric (0-9)	13,656
63	Wage Period	011	Wage Period Code Invalid	442,617
68	Date of Return to Work	029	Must be a valid date (CCYYMMDD)	453
70	Date of Maximum Medical Improvement	029	Must be a valid date (CCYYMMDD)	340,615
70	Date of Maximum Medical Improvement	034	Must be >= Date of Injury	42
70	Date of Maximum Medical Improvement	035	Must be >= Date Disability Began	3,832
70	Date of Maximum Medical Improvement	037	Must be <= Maintenance Type Code date	6,890
71	Return to Work Qualifier	020	Return to Work Qualifier Code invalid	20,392
72	Date of Return/Release to Work	029	Must be a valid date (CCYYMMDD)	7,807
72	Date of Return/Release to Work	034	Must be >= Date of Injury	3
72	Date of Return/Release to Work	035	Must be >= Date Disability Began	126
72	Date of Return/Release to Work	037	Must be <= Maintenance Type Code date	11,033
73	Claim Status	017	Claim Status Code Invalid	11,665
78	Number of Permanent Impairments	062	Required segment not present	219,881
83	Permanent Impairment Body Part Code	007	NCCI Part of Body Code Invalid	3,661
84	Permanent Impairment Percentage	028	Must be numeric (0-9)	6,465
85	Payment/Adjustment Code	024	Payment/Adjustment Code Invalid	1
86	Payment/Adjustment Paid to Date	001	Mandatory field not present	795
86	Payment/Adjustment Paid to Date	028	Must be numeric (0-9)	5
95	Paid to Date/Reduced Earnings/Recoveries Code	001	Mandatory field not present	2,397
96	Paid to Date/Reduced Earnings/Recoveries Amount	001	Mandatory field not present	125
240	Paid to Date/Reduced Earnings/Recoveries Amount	029	Must be a valid date (CCYYMMDD)	168
	<b>TOTAL</b>			<b>1,379,359</b>



## WCIS Acknowledgment Records by Validation Edit

By WCIS Validation Edit, percentages of rejections are shown for FROI (Chart 4a) and SROI (Chart 4b):

- For FROI rejections, 69% are duplicate FROI submissions and 24% are FROI sequencing errors.
- For SROI rejections, 59% are SROI sequencing errors and 33% are data-type conversions.

Percentages of “accept with error” are shown for FROI (Chart 4c) and SROI (Chart 4d):

- For FROI “accept with error,” 85% are due to FROI serious and 14% are data-type conversion.
- For SROI “accept with error,” 47% are data-type conversion, 32% are FROI serious and 19% are SROI serious.

## WCIS Acknowledgment Records by Selected Maintenance Type Code

Breakdowns by selected maintenance type code are detailed in the following tables:

- Tables 4a (FROI) and 4b (SROI) show validation edits by maintenance type code.
- Tables 5a (FROI) and 5b (SROI) show error message by maintenance type code.
- Tables 6a (FROI) and 6b (SROI) show data element by maintenance type code.

These tables present counts of acknowledgments (no error, TA) and also the combined counts of “accept with error” (TE) and “reject” (TR). The tables are sorted by the TOTAL (all MTCs) column.

Notes on the WCIS acknowledgment process:

- WCIS may report multiple errors on a single transaction, i.e. multiple TE, TR or both TE and TR errors may be acknowledged on a transaction.
- WCIS stops processing before data validation is completed when a fatal error is found on a transaction. Therefore, not all errors on a transaction are reported, and minor errors are not acknowledged to trading partners.

## WCIS Acknowledgment Records by Validation Edit, REJECT (TR)

Chart 4a

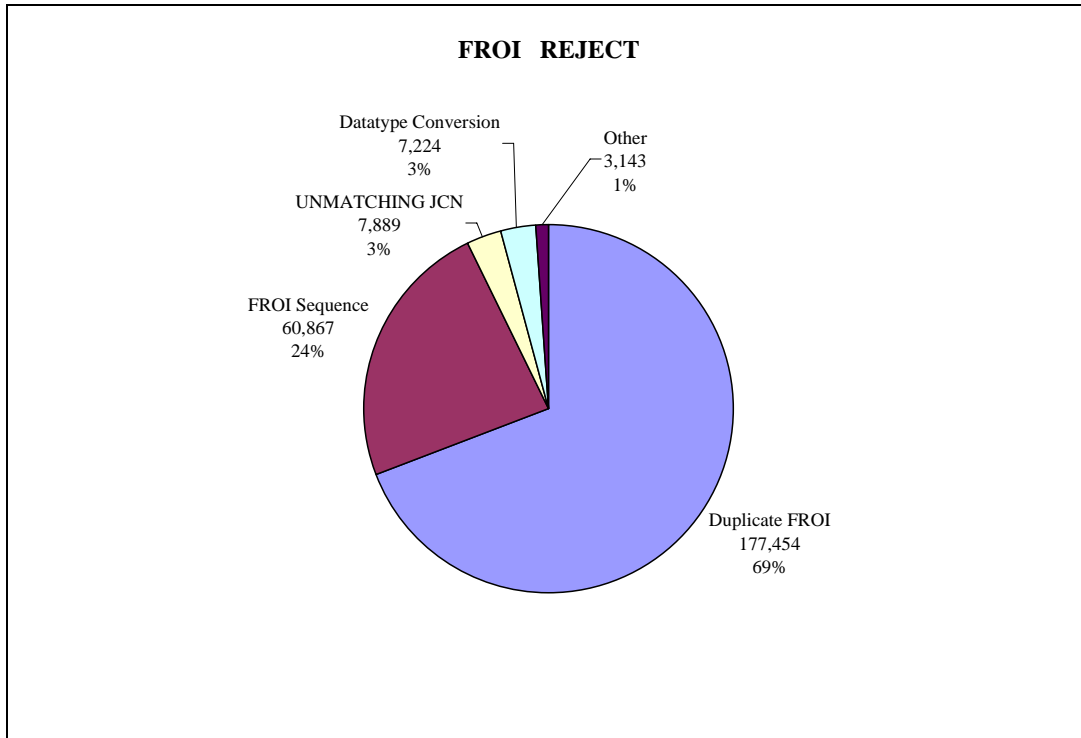
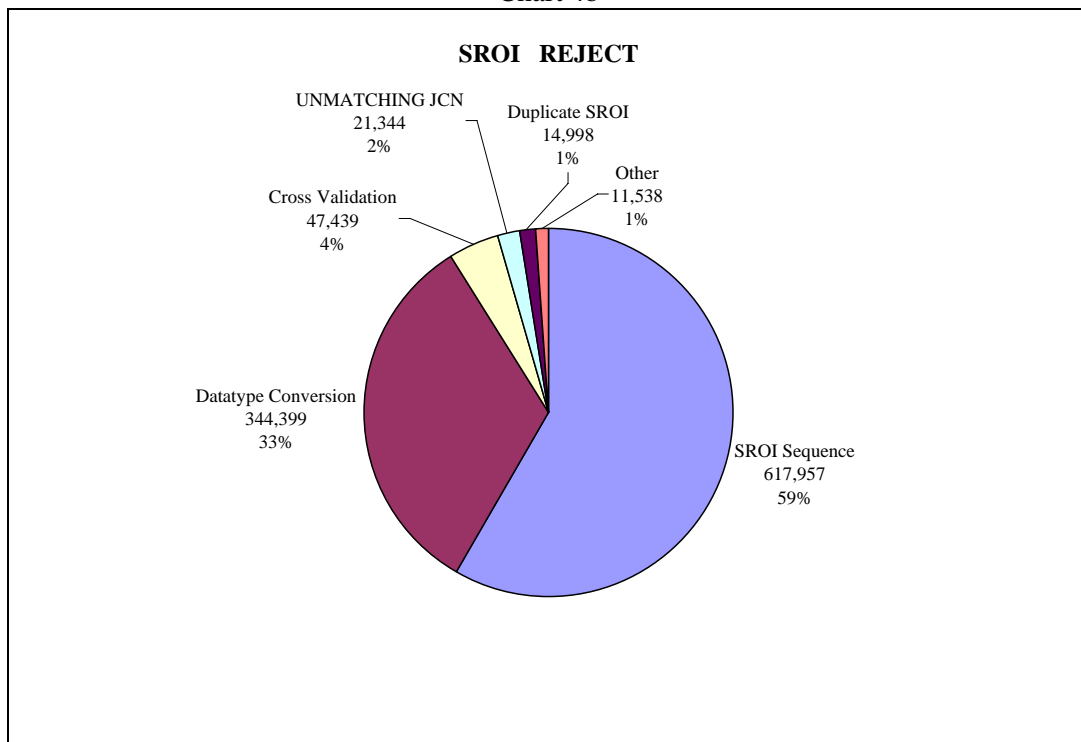


Chart 4b



## WCIS Acknowledgment Records by Validation Edit, Accept with Error (TE)

Chart 4c

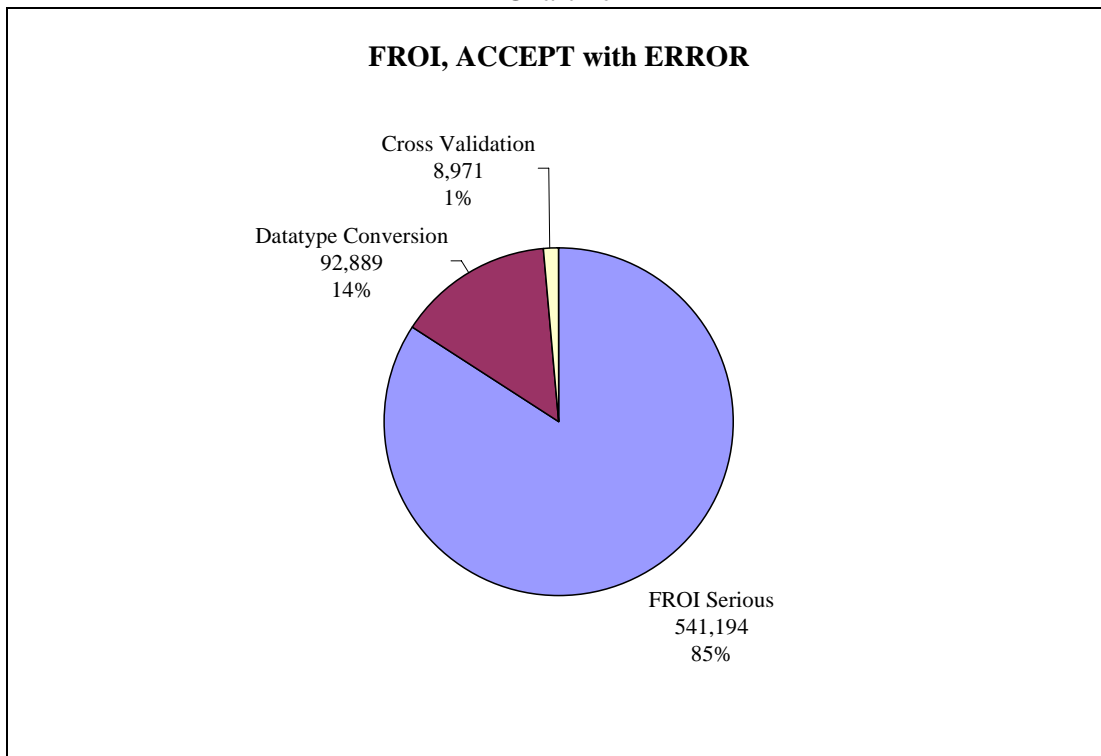


Chart 4d

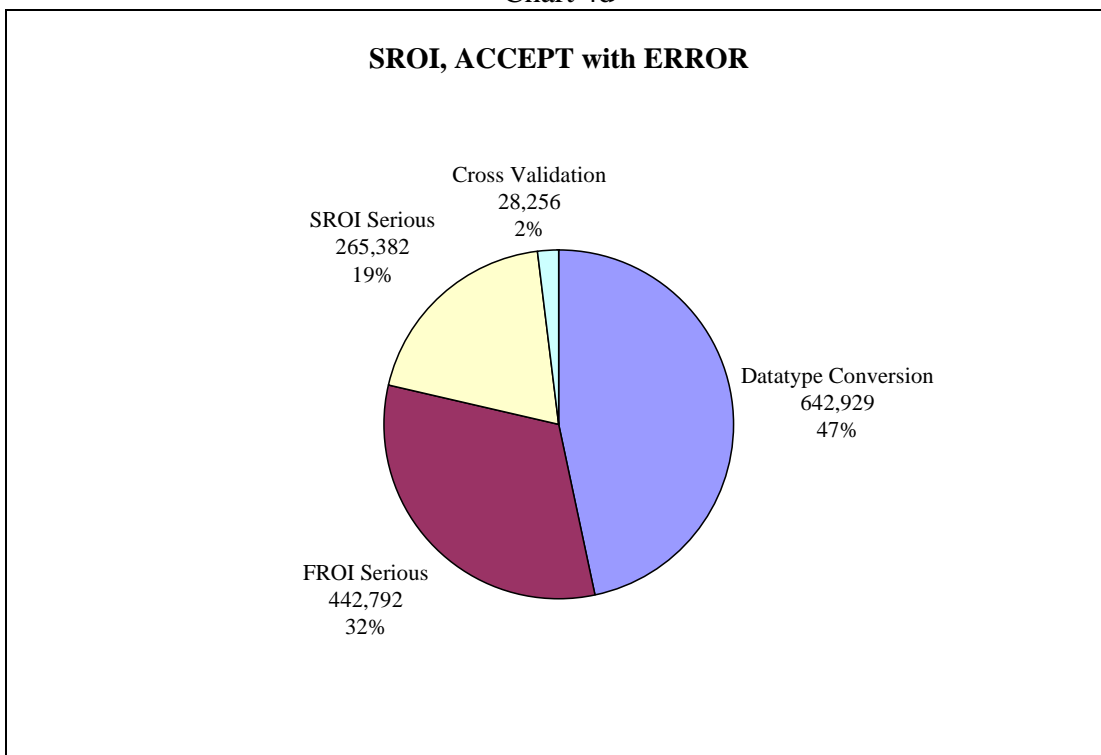


Table 4a (see Charts 4a and 4c)

<b>FROI Distribution of Acknowledgment Records by Validation Edit and Selected Maintenance Type Code (MTC)</b>			
Validation Edit	<u>Selected MTC</u>		TOTAL (All MTCs)
	Original 00	Deny 04	
Create Acknowledgment, No Errors (TA)	1,203,481	92,423	2,646,217
FROI Serious	313,393	12,447	541,194
Duplicate FROI	154,865	10,958	177,454
Data-type Conversion	59,955	1,355	100,113
FROI Sequence	1,532	0	60,867
Cross Validation	3,050	166	9,178
Unmatching JCN	0	380	7,889
FROI Fatal	2,107	201	2,501
Invalid Jurisdiction	142	15	334
Invalid MTC	0	0	101
TOTAL	1,738,525	117,945	3,545,848

Table 4b (see Charts 4b and 4d)

<b>SROI Distribution of Acknowledgment Records by Validation Edit and Selected Maintenance Type Code (MTC)</b>						
Validation Edit	<u>Selected Maintenance Type Code</u>					TOTAL (All MTCs)
	Deny 04 PD 4P	Initial Payment IP	Ac- quired Claim AP	Annual AN	Final FN	
Create Acknowledgment, No Errors (TA)	11,419	172,021	7,399	768,251	186,399	1,711,557
Data-type Conversion	794	125,406	5,256	211	233	987,328
SROI Sequence	4,750	183,311	3,294	242,466	84,195	617,957
FROI Serious	0	132,429	0	0	0	442,792
SROI Serious	97	23,440	7,112	3,251	22,270	265,382
Cross Validation	1	16,453	520	0	2	75,695
Unmatching JCN	702	6,557	98	2,425	2,552	21,344
Duplicate SROI	232	1,524	18	920	1,757	14,998
Invalid Jurisdiction	0	3	0	2	0	4,617
Invalid MTC	0	0	0	0	0	4,180
Null MTC Date	86	437	35	232	711	2,556
SROI Fatal	0	5	0	0	0	180
Duplicate FROI	0	0	0	5	0	5
TOTAL	18,081	661,586	23,732	1,017,763	298,119	4,148,591

Table 5a

<b>FROI Distribution of Acknowledgment Records by Error Message and Selected Maintenance Type Code (MTC)</b>				
Error Message		<u>Selected MTC</u>		TOTAL (All MTCs)
		Original 00	Deny 04	
Create Acknowledgment, No errors (TA)		1,203,481	92,423	2,646,217
Duplicate First Report(148)	048	154,865	10,958	177,454
Wage Period Code Invalid	011	44,749	4,295	172,269
Class Code (NCCI or State Specification) Invalid	014	88,512	4,356	133,488
Must be valid on Zip Code Table	032	77,851	1,367	108,991
Must be a valid date (CCYYMMDD)	029	45,066	333	75,980
No matching FROI (148)	053	0	380	67,224
Mandatory field not present	001	18,074	1,902	36,874
NCCI Nature Code Invalid	006	28,830	318	31,009
NCCI Cause of Injury Code Invalid	008	28,199	202	29,934
NCCI Part of Body Code Invalid	007	27,005	134	28,063
Must be numeric (0-9)	028	14,889	1,022	24,133
Must be >= Date of Injury	034	685	25	3,572
Must be <= Date of Hire	055	1,626	105	3,266
Gender Code Invalid	009	1,910	43	2,174
Invalid event sequence/ relationship	063	1,532	0	1,532
Must be <= MTC date	037	296	1	1,351
Must be <= Date of Injury	033	443	35	989
Indicator Invalid	012	370	31	884
Code/ID invalid	058	142	15	334
MTC invalid for '148'	003	0	0	106
Marital Status Code Invalid	010	0	0	4
<b>TOTAL</b>		<b>1,738,525</b>	<b>117,945</b>	<b>3,545,848</b>

Table 5b

<b>SROI Distribution of Acknowledgment Records by Error Message and Selected Maintenance Type Code (MTC)</b>							
Error Message		<u>Selected Maintenance Type Code</u>					TOTAL (All MTCs)
		Deny 04 PD 4P	Initial Payment IP	Acquired Claim AP	Annual AN	Final FN	
Create Acknowledgment, No errors (TA)		11,419	172,021	7,399	768,251	186,399	1,711,557
Must be valid date (CCYYMMDD)	029	782	124,941	5,239	2	68	972,023
Invalid event sequence/relationship	063	4,595	173,888	771	210,645	82,748	543,076
Wage Period Code Invalid	011	0	132,429	0	0	0	442,617
Required segment not present	062	0	21,457	4,457	0	13,529	219,881
No matching FROI (148)	053	857	13,596	2,576	14,392	3,987	53,181
Must be >= Date Disability Began	035	1	12,445	270	0	0	49,732
Event Criteria not met	061	0	2,318	45	19,802	0	42,536
Must be <= MTC date	037	0	3,392	247	0	2	23,527
Must be numeric (0-9)	028	12	1,658	67	209	519	21,770
Return to Work Qualifier Code Invalid	020	0	0	0	0	0	20,392
Claim Status Code Invalid	017	97	0	0	0	8,307	11,665
Duplicate transmission/transaction	057	231	694	2	209	1,110	10,859
Mandatory field not present	001	86	437	35	3,483	777	5,873
Code/ID invalid	058	0	3	0	2	0	4,617
MTC invalid for 'A49'	004	0	0	0	0	0	4,247
Value not consistent with previous value reported	059	1	830	16	716	647	4,144
NCCI Part of Body Code Invalid	007	0	790	2,605	0	14	3,661
Must be >= Date of Injury	034	0	567	3	0	0	1,983
Payment/Adjustment Code Invalid	024	0	54	0	4	4	514
Must be >= Start date	038	0	49	0	0	0	453
Must be valid on Zip Code Table	032	0	0	0	0	0	175
PTD/RE/Recovery Code Invalid	026	0	17	0	48	8	94
Benefit/Adjustment Code Invalid	025	0	0	0	0	0	14
<b>TOTAL</b>		<b>18,081</b>	<b>661,586</b>	<b>23,732</b>	<b>1,017,763</b>	<b>298,119</b>	<b>4,148,591</b>

Table 6a

<b>FROI Distribution of Acknowledgment Records by Data Element and Selected Maintenance Type Code (MTC)</b>				
Data Element	DN	Selected MTC		TOTAL (All MTCs)
		Original 00	Deny 04	
Create Acknowledgment, No Errors (TA)	0	1,203,481	92,423	2,646,217
MTC	2	156,397	11,338	246,316
Wage Period	63	44,749	4,295	172,269
Class Code	59	88,512	4,356	133,488
Postal Code of Injury Site	33	66,689	1,349	90,103
Date Reported to Employer	40	32,963	0	61,936
Occupation Description	60	15,801	1,732	33,696
Nature of Injury Code	35	28,830	318	31,009
Cause of Injury Code	37	28,199	202	29,934
Part of Body Injured Code	36	27,005	134	28,063
Employee Date of Birth	52	14,068	423	20,413
Employer FEIN	16	8,385	849	17,044
Employer Postal Code	23	7,687	0	14,196
Insurer FEIN	6	6,285	154	6,743
Claim Administrator Postal Code	14	3,475	18	4,692
Date Reported to Claim Administrator	41	818	54	2,239
Gender Code	53	1,910	43	2,174
Insurer Name	7	1,386	90	1,477
Employer Name	18	536	50	1,107
Self Insured Indicator	24	370	31	884
Date of Injury	31	266	22	569
Jurisdiction	4	142	15	334
Employee First Name	44	136	11	238
Number of Dependents	55	101	19	228
Claim Administrator Claim Number	15	134	9	189
Employee Last Name	43	81	10	167
Claim Administrator FEIN	187	118	0	118
Marital Status Code	54	0	0	4.0
MTC Date	3	1	0	1
TOTAL		1,738,525	117,945	3,545,848

Table 6b

<b>SROI Distribution of Acknowledgment Records by Data Element and Selected Maintenance Type Code (MTC)</b>							
		<u>Selected Maintenance Type Code</u>					TOTAL (All MTCs)
Data Element	DN	Deny 04 PD 4P	Initial Payment IP	Acquired Claim AP	Annual AN	Final FN	
Create Acknowledgment, No Errors (TA)	0	11,419	172,021	7,399	768,251	186,399	1,711,557
MTC	2	5,683	190,496	3,394	225,246	87,845	632,183
Wage Period	63	0	132,429	0	0	0	442,617
Date of Maximum Medical Improvement	70	0	32,551	5,515	0	0	351,379
Date of Injury	31	0	0	0	0	0	288,779
Date Disability Began	56	0	95,035	0	0	0	286,428
Number of Permanent Impairments	78	0	21,457	4,457	0	13,529	219,881
Payment/Adjustment Start Date	88	308	10,992	159	0	1	64,911
Payment/Adjustment End Date	89	307	2,660	84	0	0	36,147
Payment/Adjustment Code	85	1	884	16	20,522	651	26,374
Return to Work Qualifier	71	0	0	0	0	0	20,392
Date of Return/Release to Work	72	0	0	0	0	0	18,969
Wage	62	0	175	17	0	0	13,656
Claim Status	73	97	0	0	0	8,307	11,665
Permanent Impairment Percentage	84	0	1,193	50	0	354	6,465
Jurisdiction	4	0	3	0	2	0	4,617
Permanent Impairment Body Part Code	83	0	790	2,605	0	14	3,661
MTC Date	3	86	593	36	234	713	2,931
Paid to Date/Reduced Earnings/Recoveries Code	95	0	17	0	2,445	8	2,491
Insurer FEIN	6	12	248	0	205	164	1,531
Payment/Adjustment Paid to Date	86	0	42	0	733	67	895
Date of Return to Work	68	0	0	0	0	0	453
Claim Administrator Postal Code	14	0	0	0	0	0	175
Denial Effective Date	240	168	0	0	0	0	168
Paid to Date/Reduced Earnings/Recoveries Amount	96	0	0	0	125	0	125
Employee Date of Death	57	0	0	0	0	67	109
Number of Dependents	55	0	0	0	0	0	18
Benefit Adjustment Code	92	0	0	0	0	0	14
<b>TOTAL</b>		<b>18,081</b>	<b>661,586</b>	<b>23,732</b>	<b>1,017,763</b>	<b>298,119</b>	<b>4,148,591</b>